

Patent  
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Patents Cited by Examiner: 10

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Citing Patents: 0

Articles Cited by Inventor: 0  
Articles Cited by Examiner: 4

**Patent Number(s):**

WO200112698-A  ORIGINAL DOCUMENT ; EP1203040-A  ORIGINAL DOCUMENT ; DE19938583-A1  ORIGINAL DOCUMENT ;  
WO200112698-A1  ORIGINAL DOCUMENT ; AU200049081-A; EP1203040-A1  ORIGINAL DOCUMENT ; BR200201454-A;  
KR2002027550-A; ZA200200954-A; CN1370193-A; JP2003507507-W; AU776078-B2

**Title:**

Producing plastic capable of crystallization from e.g. amorphous PET, includes a screening stage following crystallization

**Inventor Name(s):**

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**Patent Assignee Name(s) and Code(s):**

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**Derwent Primary Accession Number:**  
2001-274481 [76]

**Abstract:**

NOVELTY - Following a crystallization stage the plastic is screened.

USE - To make materials capable of crystallization e.g. polyesters or similar, especially polyethylene terephthalate, by melting, crystallization and post-condensation.

ADVANTAGE - A higher reactivity is achieved during crystallization and post-condensation in the solid phase. This results from the larger crystallites and improved crystalline surface structure achieved. Foreign solids can be reliably removed from the plastic material. Energy consumption is reduced.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for plant treating a polyester, especially PET. The plant includes a granulator, fluidized bed (4), and a shaft reactor (7). In the new design, a screen (5) follows the fluidized bed.

DESCRIPTION OF DRAWING(S) - A schematic flow diagram of the plant is included.

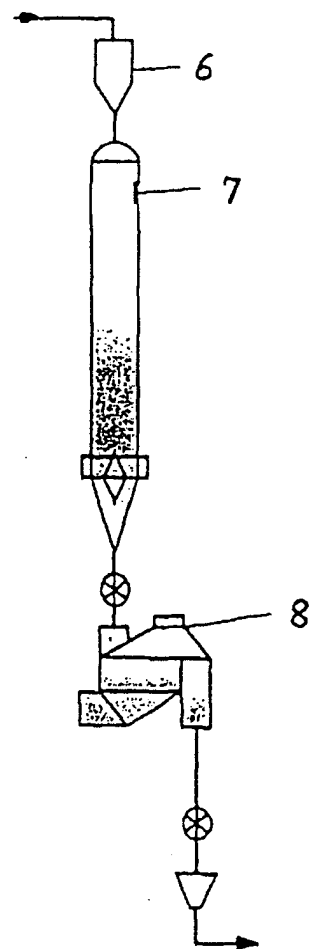
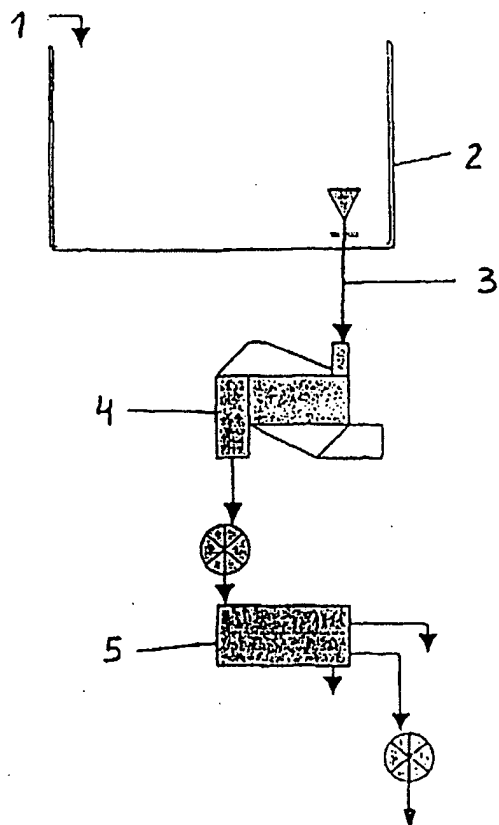
screen (5)

fluidized bed (4)

shaft reactor (7)

cutter (2)

**Drawing:**



**International Patent Classification:**

C08J-003/12; C08L-067/02; C08G-063/88; C08G-085/00; C08J-003/00; C08G-000/00; C08G-063/80

**Derwent Class:**

A31 (Preliminary processes); A23 (Polyamides, polyesters, polycarbonates, alkyds)

**Derwent Manual Code(s):**

A11-A; A11-B02

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO200112698-A					
EP1203040-A					
DE19938583-A1	22 Feb 2001	C08J-003/12	200129	Pages: 4	German
WO200112698-A1	22 Feb 2001	C08G-063/88	200129		
AU200049081-A	13 Mar 2001	C08G-063/88	200134		
EP1203040-A1	08 May 2002	C08G-063/88	200238		German
BR200201454-A	20 Aug 2002	C08J-003/00	200263		
KR2002027550-A	13 Apr 2002	C08G-063/88	200267		
ZA200200954-A	30 Oct 2002	C08G-000/00	200282	Pages: 24	
CN1370193-A	18 Sep 2002	C08G-063/88	200303		
JP2003507507-W	25 Feb 2003	C08G-063/80	200317	Pages: 15	
AU776078-B2	26 Aug 2004	C08G-063/88	200476		

**Application Details and Date:**

DE19938583-A1	DE1038583	18 Aug 1999
WO200112698-A1	WOCH00317	09 Jun 2000
AU200049081-A	AU049081	09 Jun 2000
AU776078-B2	AU049081	09 Jun 2000
CN1370193-A	CN811733	09 Jun 2000
EP1203040-A1	EP930958	09 Jun 2000
JP2003507507-W	JP517589	09 Jun 2000
ZA200200954-A	ZA000954	04 Feb 2002
KR2002027550-A	KR702015	16 Feb 2002
BR200201454-A	BR001454	18 Feb 2002

**Further Application Details:**

AU200049081-A	Based on	Patent	WO200112698
EP1203040-A1	Based on	Patent	WO200112698
EP1203040-A1	PCT application	Application	WOCH00317
JP2003507507-W	Based on	Patent	WO200112698
JP2003507507-W	PCT application	Application	WOCH00317
AU776078-B2	Based on	Patent	WO200112698
AU776078-B2	Previous Publ.	Patent	AU200049081

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DE1038583 18 Aug 1999

**Designated States**

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(National): AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW

WO200112698-A1

(Regional): AT; BE; CH; CY; DE; DK; EA; ES; FI; FR; GB; GH; GM; GR; IE; IT; KE; LS; LU; MC; MW; MZ; NL; OA; PT; SD; SE; SL; SZ; TZ; UG; ZW

**Field of Search:**

x; C08J003/2; C08L067/02

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